ePhoto CL20

User's Guide

AGFA

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Regulation Compliance

FCC Information Test

FCC Warning: This equipment meets the limits for a Class B digital device, pursuant to Part 15 of FCC Rules. Only the power pack and cable supplied with the camera should be used. Operation with other power packs and cables is likely to result in interference to radio and TV reception and could void the user's authorization to operate this equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the manufacturer may void the user's authority to operate this equipment.

The limits for a Class B digital device, pursuant to Part 15 of the FCC Rules, are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by switching the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Canadian Radio Interference Regulations Statement

This Class B digital device meets all the requirements of the Canadian Interference-Causing Equipment Regulations.

Cet appareil numérique de la Classe B respecte toutes les exigences du Réglement sur le matériel brouilleur du Canada.

CE Declaration of conformity according to ISO/IES Guide 22 and EN 45014

This equipment complies with the requirements of the Low Voltage Directive 73/23/ECC, 93/68/ECC standards: EN 60950: 1995/A3.

This equipment complies with the requirements of the EMC Directive 89/336/ECC

Standards: EN 50081-1-EN55022 class B

EN 50082-1-EN61000-4-2, EN61000-4-3, EN61000-4-4

Warranty

Agfa warrants this product to be free from defects of material and workmanship for one (1) year from the date of purchase. During the warranty period, Agfa will repair or replace, at its option, the product at no charge to the customer. The replacement unit may be a re-manufactured unit or a unit of equal or greater functionality. After one (1) year, Customer shall pay for all parts, labor and service.

Agfa warrants that software products will conform to published specifications in effect at the time of delivery for 90 days after purchase. Customer acknowledges that the Software may have inherent defects because of its complexity. The warranty applies only to the media on which the software is recorded. During the 90 days period, Agfa guaranties free support via the telephone. This support is not valid for third party software.

If a unit is replaced during the warranty period, the original warranty shall remain in effect until the end of the one (1) year period or shall be 30 days, whichever is longer.

This warranty is transferable with new owner notification to Agfa.

This warranty shall not apply if the customer:

- Abuses or modifies Product or Software.
- Operates the system in an environment with excessive dirt, moisture, chemical fumes, extremes of temperature or other improper conditions. The camera is not impermeable to water, dust or sand.
- Supplies other Software or Interfacing.

Warranty service is excluded if the serial number of the product has been tampered with or removed.

Caution: The parties agree that all other warranties, express or implied, including warranties of fitness for a particular purpose, merchantability and non-infringement, are excluded.

Safety Information

- To reduce the risk of electric shock, do not disassemble the camera.
- To reduce the risk of fire or electric shock, do not expose the camera to rain or moisture. Refer all servicing to qualified service personnel.
- Only use the following batteries: AA Alkaline, AA Lithium or AA NiMh batteries. Do not use batteries that show signs of leakage, corrosion or swelling, or that are excessively warm.

Care and Maintenance

- Avoid leaving the camera in the sun or in a very warm location (beach, car, and so on) for prolonged periods.
- Do not wrap the camera in cloth or plastic while it is on (heat and moisture may be trapped and damage the camera).
- Avoid using the camera in excessively cold (below 0°C/32°F) or excessively warm (above 40°C/104°F) conditions.
- When you bring the camera from a cold to a warm location, allow the camera to reach room temperature before you use it.
- If condensation develops inside the camera, stop using it immediately. Leave the camera at room temperature for a few hours to allow the condensation to evaporate.
- To clean the camera lens or LCD, blow away any surface dust or dirt. Then breathe on the surface to form a mist and gently wipe it with a soft, lint-free cloth or lens cleaning tissue.
- To avoid scratching the lens, use a gentle, circular motion when wiping.
- Never use harsh or abrasive cleaners on the outside surfaces of the camera. Wipe off dust with a clean, dry cloth.

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Introduction

The Agfa ePhoto CL20 digital camera can handle still images as well as video images. The following table gives you an overview of the possibilities of the camera:

Still images	Video/Images over USB
Using a CompactFlash™ Card (p.15) ■ to store images on a CompactFlash memory card ■ to (re)format your CompactFlash card	**Transferring still images to your PC (p.21)** ■ USB powered (no batteries needed) ■ fast image download with the USB interface at 300KB/s on your PC (this requires Windows® 98-2000) ■ to view images on your PC using AgfaCam Mounter ■ to order prints over the internet using AGFAnet™ Print Service ■ to manage images using PhotoWise™
Recording still images (p.20) ■ in Low resolution (512 x 384) up to 30 images in the internal 1 MB camera memory ■ at XGA in High resolution (1024 x 768) up to 10 images in the internal 1 MB camera memory ■ at PhotoGenie resolution (1280 x 960) up to 6 images in the internal 1 MB camera memory ■ with built-in flash and self-timer functionality	**Videoconferencing (p.30)** ■ USB powered (no batteries needed) ■ using the USB interface at 300KB/s on your PC (this requires Windows® 98-2000) ■ videoconferencing software using Microsoft NetMeeting® or other videoconferencing software that supports standard video for Windows drivers
Deleting still images (p.19) ■ to delete images □ to delete the last image recorded □ to delete all images ■ to clear the camera memory	**Capturing video images (p.31)** ■ USB powered (no batteries needed) ■ using the USB interface at 300KB/s on your PC (this requires Windows® 98-2000) ■ video capture software using VideoImpression™

❖ Note: To read more on your ePhoto CL20, visit: http://support.agfa.com/homeOffice.

❖ Note: Due to rescaling, some of the screen shots included in this document may appear unclear when displayed at 100% magnification. You can view these screen shots more clearly by using the Zoom tool to increase the default magnification.

Chapter 1: Getting to Know Your Camera

Taking a Closer Look

1 Shutter Button

To record an image or to confirm options of the Delete button.

2 Timer Indicator

A blinking red light indicates that the selftimer is activated.

3 Built-in Flash

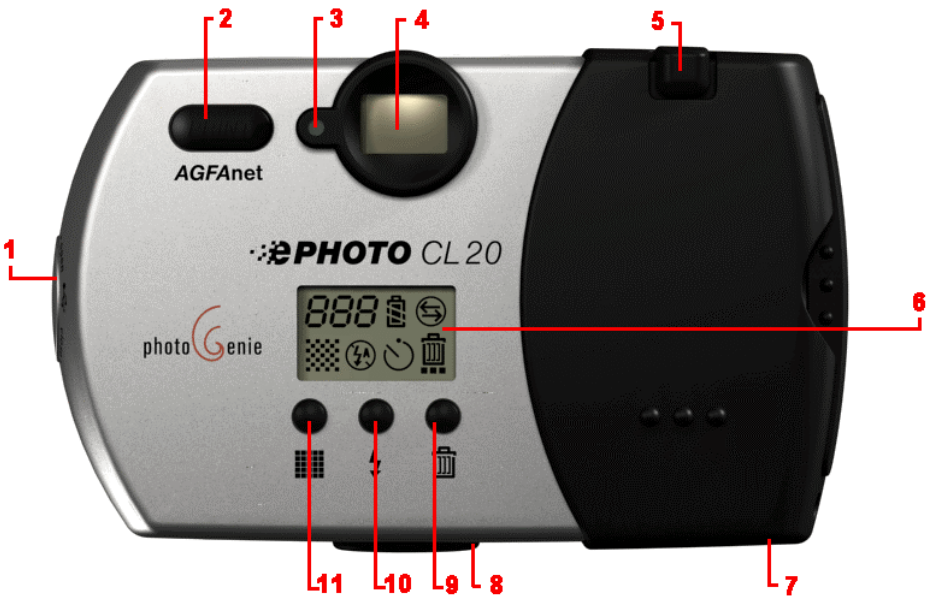
To light dark scenes.

4 Lens

Focal range = 65 cm (25.6 inch) to infinity.

5 CompactFlash Slot

To insert an optional CompactFlash memory card.



1 USB Port (⇐)

To connect your camera with a USB cable to your computer.

2 Print Button

To upload your images via the internet to an Internet Printing Service.

3 Green Action Indicator

A steady green light indicates that the camera is ready. The green action indicator blinks when the camera starts up, processes an image or when the flash is charging.

4 Viewfinder

To frame images.

5 OFF/REC Auto Return Switch

To switch the camera on or off.

6 Display

To see the settings.

7 Battery Compartment

To insert 2 AA Alkaline, AA Lithium or AA NiMh batteries.

8 Tripod Mount

To mount the camera on a tripod or cradle.

9 Delete Button

To delete the last recorded image (press once) or to delete all images (double-press) or to format the optional CompactFlash™ card (triple-press).

10 Mode Button

To set the selftimer and the flash settings.

11 Resolution Button

To set the resolution of your camera.

Power Sources

Your ePhoto CL20 has two possible power sources:

- batteries
- USB power

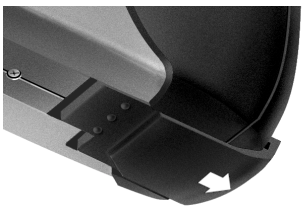
Batteries

Inserting batteries

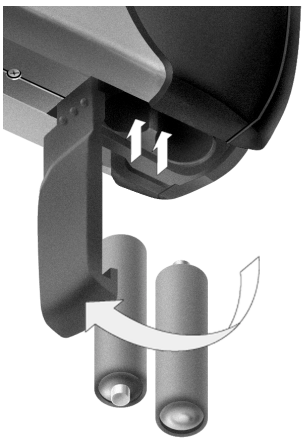
Your ePhoto CL20 camera comes with 2 AA Alkaline batteries.

❖ Note: You can also use AA NiMH or AA Lithium batteries.

1 Unlock the battery compartment door.



2 Slide the door of the battery compartment in the direction of the arrow.

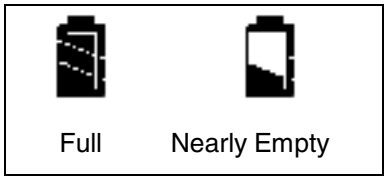


3 Insert 2 AA appropriate batteries. Make sure the pole-marks on the batteries (+ and -) correspond to those in the battery compartment.

4 Slide the battery compartment door back into place.

Battery Status

The Display always indicates the status of the battery. Segments disappear as power is used.



A Empty icon indicates that the batteries are empty.

Battery Care

- If you are not going to use your camera for an extended period of time, remove the batteries to prevent leaks or corrosion.
- Before replacing the batteries, switch the camera OFF.
- Use only size AA Alkaline, NiMH (with a minimum capacity of 1200 mAh) or Lithium batteries.
- Do not use batteries that show signs of leakage, corrosion or swelling.
- Do not use batteries that are excessively warm.
- If necessary, clean battery contacts with a dry cloth before installation.
- Always replace all batteries with two identical, new (or fully charged) ones.
- Dispose used batteries in a manner that complies with applicable laws.

USB Power

The moment you connect your camera to a PC (with the supplied USB cable), it is powered by the PC (and does not use battery power).

❖ Note: If the camera is USB-powered the flash is disabled.

Memory Options

You can store captured images in two ways:

- In the Internal memory (1 MB capacity)
- On an optional CompactFlash memory card (external memory of 4, 8, 16, 32, 64, …MB capacity)

Internal Memory

Your ePhoto CL20 camera comes with an internal memory of 1 MB. You can store 6 images in PhotoGenie resolution, 10 images in High resolution (XGA) and up to 30 images in Low resolution.

CompactFlash Memory Card (Optional External Memory)

Inserting/Removing an Optional CompactFlash memory card

1. Open the door of the memory card compartment.
2. To insert a card:
   Insert the CompactFlash card and push it all the way into the slot.
   - ❖ Note: The memory card is shaped so that it can only be inserted into the slot in the correct way. Do not force the card.

   To remove a card:
   Pull the CompactFlash card out of the slot.
3. Close the memory card compartment door.

❖ Note: With a CompactFlash card inserted, the internal memory can not be used.

Formatting an Optional CompactFlash Memory Card

1. Press the **Delete button** three times to activate the formatting option.
2. Press the Shutter button to format the CompactFlash memory card.
3. Confirm by pressing the Shutter button once more.

Camera Controls

The REC/OFF Auto Return Switch

Switching On the Camera

- Slide the REC/OFF auto return switch towards REC.

  Wait until the Green Action Indicator stops blinking before recording an image.

Automatic Power Off Function

The camera is equipped with an automatic power off function. It switches off automatically after one minute of inactivity.

To re-activate the camera:

- Slide the REC/OFF auto return switch towards REC.

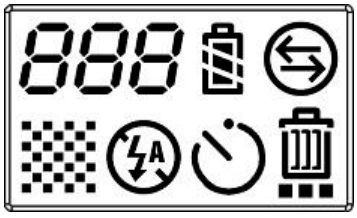
Switching Off the Camera

- Slide the REC/OFF auto return switch to shut down the camera.

  You hear a beep, the Green Action Indicator and display are dimmed.

The Status Display

The display shows the camera settings you selected by means of icons.

Example of display information: 

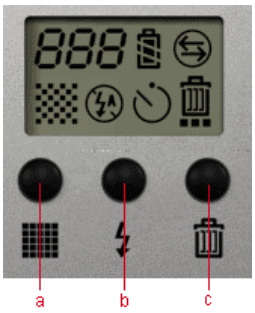
The display gives you information on:

- the number of images that still can be recorded
- the status of the batteries (full, nearly empty)
- the USB connection to a PC
- the resolution
- the flash setting (activated or not)
- the selftimer setting (activated or not)
- the deleting of images

The Mode Button

Activating Automatic Flash and/or Selftimer

- Press the **Mode button** to change the combined flash and selftimer option.



a: Resolution button
b: Mode button
c: Delete button

When you activated the automatic flash, the flashlight will go off if the scene you want to record is too dark. In this case the flash will charge before you can press the Shutter button.

On the display you see the icons of the option you set:

Icon	Option
	Automatic Flash
	Automatic Flash + Selftimer
	Flash
	Flash + Selftimer
	No Flash
	No Flash + Selftimer

❖ Note: The flash and selftimer settings are not stored when you switch off the camera.

The Resolution Button

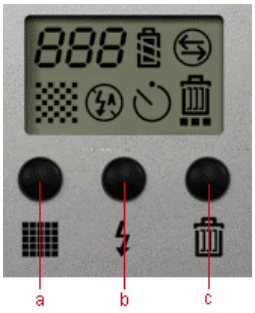
Setting the Resolution

Depending on the Image resolution you can record 6 images in PhotoGenie resolution (1280 x 960), 10 images in XGA resolution (1024 x 768) and up to 30 still images in Low resolution (512 x 384).

❖ Note: According to the combination of PhotoGenie, High and Low resolution images you store in the camera's memory (or on the CompactFlash card), the capacity varies.

To change the Image resolution:

- Press the **Resolution button**.

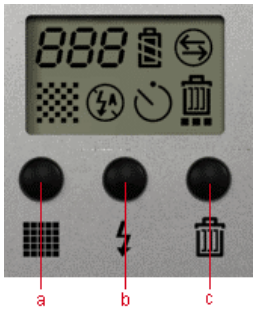


a: Resolution button
b: Mode button
c: Delete button

On the display you see the icons of the option you set:

Icon	Option
	Low Resolution (512 x 384) Low image resolution — standard compression capacity: 30 images in the internal memory
	High Resolution (1024 x 768) High image resolution — standard compression capacity: 10 images in the internal memory
	PhotoGenie (1280 x 960) PhotoGenie image resolution — low compression capacity: 6 images in the internal memory

The Delete Button



a: Resolution button
b: Mode button
c: Delete button

Deleting the Last Image Taken

1 Press the **Delete button** once to select the last image to delete.

2 Press the Shutter button to delete the image.

3 Confirm by pressing the shutter button once more.

Deleting All Images at a Time

Once your camera's (or CompactFlash card) memory is full, you have to delete images in order to record new images. If you want to store the images, you have to download them to the PC first.

1 Press the **Delete button** twice to select all images to delete.

2 Press the Shutter button to delete the images.

3 Confirm by pressing the shutter button once more.

❖ Note: Pressing the Delete button three times you can format the CompactFlash memory card.

Chapter 2: Recording a Still Image

❖ Note: Do not forget to insert batteries as described in Inserting Batteries.

1 Slide the REC/OFF auto return switch towards REC.

Wait until the Green Action Indicator stops blinking.

2 Change the camera settings.

3 Frame the image in the viewfinder.

4 Press the Shutter button and hold still your camera until you hear a beep.

The action indicator blinks until the image is stored in the camera's (or external) memory.

The moment the action indicator stops blinking you can record another image.

❖ Note: The camera shuts down after one minute when no button is pressed.

Tips to Record Images

- The number on the display indicates the number of images that still can be recorded.
- While recording an image, hold still your camera until you hear a beep.
- To obtain sharp images, do not record images closer than 65 cm (25.6“).
- Be aware that the built-in flash only ranges from 1 m to 3 m (3.3 ft to 9.8 ft).
- Preset your camera to High or PhotoGenie resolution if you intend to print the image.
- Preset your camera to Low resolution if you intend to use the image in internet or e-mail applications.

Chapter 3: Transferring Images to Your PC

Installing the Required Software

1 Insert the ePhoto CL20 CD in the CD-ROM drive.

- Note: If the Installation does not start automatically, double-click My computer, double-click the CD-ROM icon and double-click Setup.exe.

2 Select your language and follow the instructions.

- AGFAnet client software
  To send images over the internet for printing on photopaper.
  - Note: The Print button on your ePhoto CL20 camera will not be available without the AGFAnet client software.
  - Note: To use the Agfa Internet Print Service, you need the AGFAnet client software. For more information, refer to the AGFAnet brochure in your package or visit http://www.AGFAnet.com.
- Agfa PhotoWise
  To organize your images in albums and make slideshows.
- VideoImpression
  To capture video clips (over the USB cable).
- NetMeeting
  To video-conference (over the USB cable).
  - Note: The installer in the NetMeeting folder will also install or update Internet Explorer if necessary.

Caution: After installing NetMeeting you have to restart your computer.

- Adobe Acrobat
  To read the User's Guide.
- Driver Software
  The Driver software will install the Video Driver, the AgfaCam Mounter and the Twain Driver in order to transfer or save still images.

Caution: After installing the Driver Software you have to restart your computer.

- Note: Make sure to install the Driver Software after installing the other applications. The Driver Software will then automatically detect the previous installed software.

3 Follow the instructions in the successive screens.

Connecting the Camera to Your PC

1 Open the USB compartment door.

2 Plug one end of the USB cable into your camera's USB port.

3 Plug the other end of the USB cable into your computer's USB port.

The USB port on your PC is labeled with the USB icon as shown in the picture below.

4 Slide the REC/OFF auto return switch towards REC.

The AgfaCam Mounter appears.

Viewing and Saving Images on Your PC Using the AgfaCam Mounter

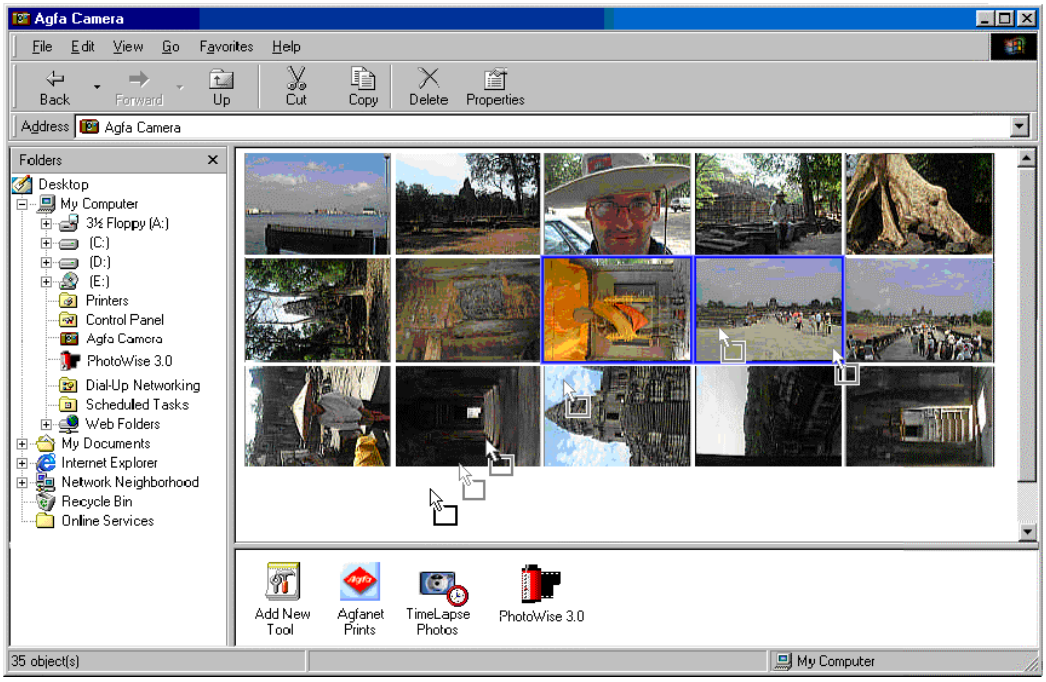
1 Connect your ePhoto CL20 to your PC as described in Connecting the Camera to Your PC.

The Agfa Camera window appears.

❖ Note: After closing the Agfa Camera window you can re-open it by double-clicking My Computer, Agfa Camera.

2 From the View menu, select Explorer Bar, Folders.

The Explorer bar appears.



3 Select the thumbnails you want to transfer to your PC.

4 Drag them to the desired folder or application in the Explorer Bar.

Chapter 4: Organizing Images Using PhotoWise

With PhotoWise you can download images from your CL20 Camera and organize them in rolls of film.

1 Open PhotoWise by clicking Start > Programs > PhotoWise.

The PhotoWise window appears.

2 Right-click the Camera icon and select “Digital Camera Input Setting…”.

The Select Source window appears.

3 Select the ePhoto CL20 driver (if needed).

4 Enter the path (or use the Browse button) where the images will be stored.

5 Select the check box “Create a new roll of film” to place the images in a new roll of film.

-or-

Do not select the check box “Create a new roll of film” to place the images in the (highlighted) roll of film that was selected before.

6 Click OK.

7 Click the Camera icon.

❖ Note: Make sure the camera is connected to your computer via the USB cable.

The ePhoto CL20 window appears.

8 Select all the images or select the desired images you which to transfer to your hard disk.

9 Click the button.

The images will be saved to the hard disk and will be shown in the PhotoWise thumbnail view placed under the chosen roll of film.

❖ Note: For more information, click .

❖ Note: For more information, refer to the PhotoWise online help system. You can access the online help system by pressing “F1” or by moving your cursor to the top of the window and choose “Help Topics” from the “Help menu”.

Chapter 5: Ordering Prints Over the Internet Using AGFAnet Print Service

After installing the CL20 software from the ePhoto CL20 CD, you can easily upload your images from your camera to the internet for printing. There are two ways to upload your images to the internet.

- Using the Print Button
- Using the AgfaCam Mounter

Ordering Prints Using the Print Button

1 Install the software as described in Installing the Required Software.

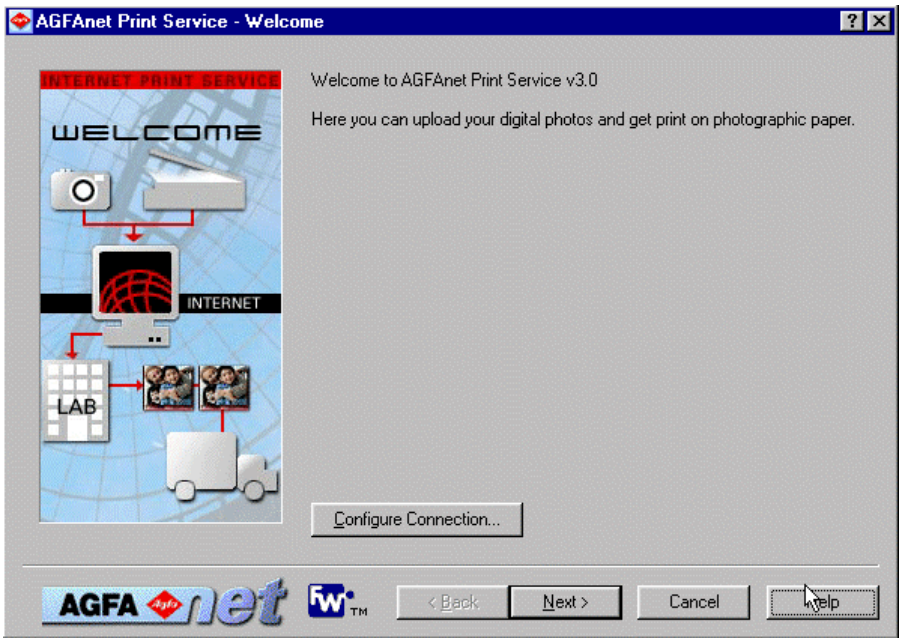
❖ Note: In order to use the Print button make sure to install the AGFAnet client software.

2 Connect the ePhoto CL20 with the USB cable to your computer as described in Connecting the Camera to Your PC.

The AgfaCam Mounter appears.

3 Press the Print button on your camera.

4 The AGFAnet Print application starts.



5 Click Configure Connection... to set up your connection.

6 Click Next to go through each step of the wizard.

❖ Note: For more information about the wizard, click the Help button.

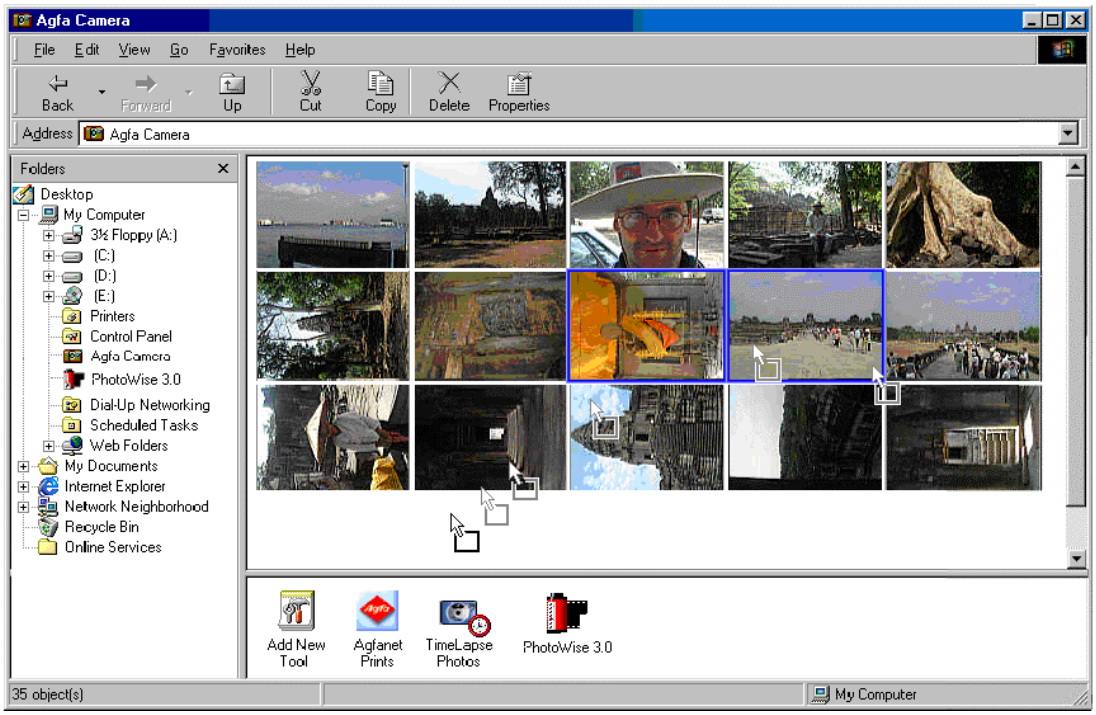
After completing the wizard, the uploaded images will be printed and send to your home.

Ordering Prints Using the AgfaCam Mounter

1 Install the software as described in Installing the Required Software.

2 Connect the ePhoto CL20 with the USB cable to your computer as described in Connecting the Camera to Your PC.

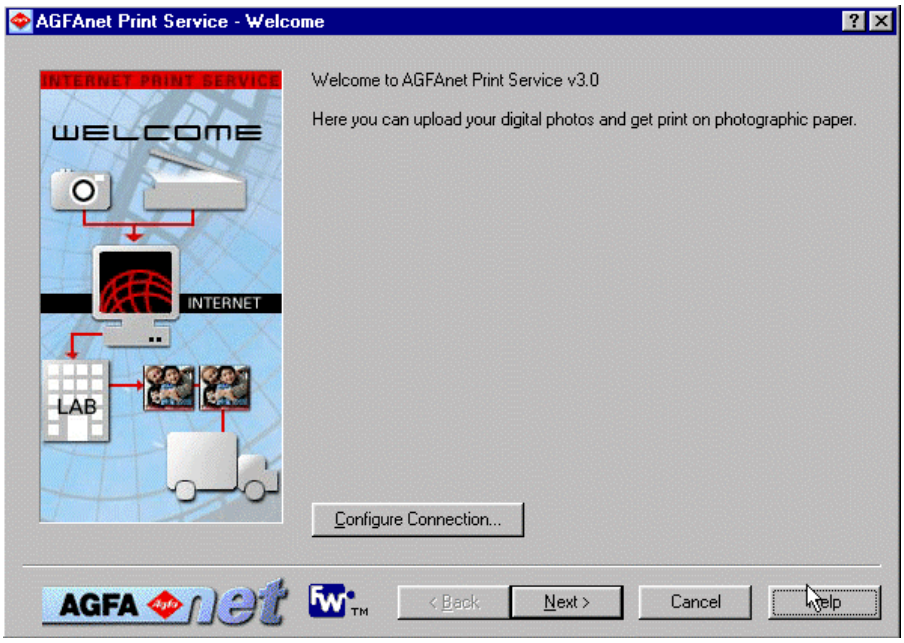
3 Repeat the procedure described in Viewing and Saving Images on Your PC Using the AgfaCam Mounter.



4 Select the thumbnails you want to transfer to AGFAnet Prints.

5 Drag the desired images onto the AGFAnet Print application icon.

The AGFAnet Print application starts.



6 Click Configure Connection... to set up your connection.

7 Click Next to go through each step of the wizard.

❖ Note: For more information about the wizard, click the Help button.

After completing the wizard, the uploaded images will be printed and send to your home.

Chapter 6: Using the ePhoto CL20 for Video Applications

Videoconferencing with MS NetMeeting

Videoconferencing over the Internet

To use NetMeeting® 3.0 (or higher) over the internet you need a modem for internet connection and Internet Explorer® 4.01 (or higher).

Visit http://www.netmeet.net/bestservers.asp and choose an ILS server for your country and write down the address (you will need this to specify the ILS Server).

1. Connect the ePhoto CL20 to your computer with the USB cable.
2. Switch on the camera.
3. Connect to the internet.
4. Choose Start/Programs/Accessories/Communications/NetMeeting to launch MS NetMeeting.
5. Select Option from the Tools menu.
6. Specify the ILS Server address in the Directory Settings box.
7. Select the Directory option in the Call menu.
8. Choose someone to videoconference with.
9. Activate the video receive function by clicking the Play button.
10. Choose the Video Send and Receive from the Tools menu.

Videoconferencing over LAN

Using NetMeeting over a Local Area Network (LAN), you only need to make a new call (Call / New Call) and fill in the TCP/IP address or computer name of the person you want to videoconference with.

Capturing Video Images with VideoImpression

1. Connect the ePhoto CL20 to your computer with the USB cable.
2. Switch on the camera.
3. Choose Start/Programs/ArcSoft Video/VideoImpression to launch VideoImpression.
4. Click the New button to capture video.
5. Select the Capture Video button (camera icon).
6. Select ePhoto CL20 video capture 2000 in the Driver list (if needed).
7. Click the Format button.

   The Format window appears.
8. Set the desired output size (resolution).
9. Click OK.

   The VideoImpression window reappears.
10. Click the Record button.
11. Press the ESC-key on your keyboard to stop.
12. Click the Save button (floppy icon) to save your video on your computer.

❖ Note: Depending on your hardware configuration, you may have to select a lower resolution in order to obtain a smoother video clip. To do so, click the Format button.

Appendix A: Troubleshooting and Support

Troubleshooting

The camera does not start up

- The camera is switched off. Slide the REC/OFF auto return switch towards REC.
- The camera is automatically switched off because of one minute of inactivity. Slide the REC/OFF auto return switch towards REC.
- The batteries are too weak. Replace them.

The Shutter button does not work

- The camera is still recording an image.
- The flash is still charging. Check the Green Action Indicator.

The built-in flash does not work

- The flash is off. Check the flash setting.

Support

For more information and support on your Agfa ePhoto CL20:

Visit our website at: **http://support.agfa.com/homeOffice**.
The most effective way to find an answer to your problem is to execute the successive steps described below.

1. Create an Agfa e-Service Account

You need to create an Agfa e-Service account to benefit from:

- personalized online technical support
- access to customized self-help tools and technical information
- automatic e-mail notification of all new support documents
- the latest Agfa product news

To create an Agfa e-Service account and to register your CL20 camera, click **Create your e-Service Account**.
If you already have an Agfa e-Service account, go to **http://support.agfa.com** and click **Add/Register Product** to add new products to your e-Service.

2. Consult the Solution Finder Database

- Click the **Solution Finder** tab to consult the standard answers on various problems/questions.

❖ Note: If you do not find the Solution Finder tab, you first have to return to the Home and Office page.

3. Consult the Support Documents Database

- Click the **Support Documents** tab to read the latest technical product news.

4. Consult the Software Library

- Select the **Software Library** tab to retrieve available software updates for your ePhoto CL20 camera.

5. Contact the Nearest Service Office

- Select the **Service Offices** tab to find the hotline number of your nearest Agfa Service Office.

6. Personalized Online Support

If you do not find an answer to your problem/question in the Solution Finder or in the Support Documents Database, click **Agfa Online Support Home** to open Personalized Online Support. Describe your problem as accurate as possible.

For more information and support on MS NetMeeting:

Consult the help system or visit http://www.microsoft.com/windows/netmeeting and http://www.netmeet.net

For more information and support on VideoImpression:

Consult the help system or visit http://www.arcsoft.com

For more information and support on PhotoWise:

Consult the online help system.

Appendix B: Camera Specifications

Parameter	Specifications
Image Resolutions	1280 x 960 pixel resolution (PhotoGenie); 1024 x 768 pixel resolution (XGA); 512 x 384 pixel resolution
LCD Display	Black and white status display
Color	24-bit (millions of colors)
Memory	1 MB internal memory
	CompactFlash slot Type 1
Lens	Focal range = 65 cm (25.6 inch) - infinity
White Balance Auto	Automatic
Built-in Flash	Automatic, Off, On
Selftimer	On, Off
Shutter Speed	1/10 sec to 1/2000 sec (auto)
Weight	< 120 g (4.23 oz) without batteries
Dimensions	95(H) x 65 (W) x 35 mm / 3.7”(H) x 2.55”(W) x 1.37”